

Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A method for writing data to a recording medium, said method comprising:

writing location information and common information in each sector of a series of sectors of the recording medium in which data is to be written in response to ~~caused by~~ a single data write request, said location information ~~which is being~~ information indicating a location of the sector in the series of sectors ~~and, said~~ common information ~~which varies~~ being information set relating to the series of sectors and varying every time data writing to the series of sectors occurs ~~and is information set relating to the series of sectors.~~

2. (currently amended) A method for writing data according to claim 1, wherein

at least one of the following information is set in the location information:

information indicating that the sector is a head sector of the series of sectors;

information indicating that the sector is a tail sector of the series of sectors;

and

information indicating that the sector is neither a head sector nor a tail sector

of the series of sectors.

3. (original) A method for writing data to a recording medium according to claim 1, wherein the recording medium is a magnetic disk.

4. (currently amended) A method for validating data comprising the steps of:
writing location information and common information in each sector of a series of sectors of a recording medium in which data is to be written in response to a single data write request, said location information being which is information indicating a location of the sector in the series of sectors, said and common information being information set relating to the series of sectors and varying which varies every time data writing to the series of sectors occurs ~~and is information set relating to the series of sectors;~~

reading out the location information and the common information which are written in each sector of the ~~continuous series of~~ sectors of the recording medium;
and

validating data based on the read out location information and common information.

5. (currently amended) A method for validating data according to claim 4, wherein the step of validating data is the step of:

validating data stored in a sector by deciding whether the common data of the

sector is the same as the common data of a sector immediately before the sector when the location information of the sector is information indicating that the sector is neither a head sector nor a tail sector of the series of sectors.

6. (currently amended) A ~~method for controlling a computer constructed~~ comprising

a communication control unit, said communication control unit including which provides a function to communicate with an external device;

an I/O control unit, said I/O control unit capable of writing and reading which writes and reads data to and from a recording medium; and

a ~~cash~~ cache memory, said cache memory being accessible by which the communication control unit and the I/O control unit, and can access; said method comprising the steps of:

wherein when the communication control unit receives a data write request from the external ~~device; device,~~ the communication control unit writes location information and common information in data to be written in each sector of a series of sectors of the recording medium in which data is to be written in response ~~to caused by~~ the data write request, said location information being which is information indicating a location of the sector in the series of sectors, and said and common information being information set relating to the series of sectors and varying which varies every time data writing to the series of sectors occurs ~~and is~~ information set relating to the series of sectors.

7. (currently amended) A ~~method for controlling a computer constructed~~
comprising

a communication control unit, said communication control unit including which
~~provides~~ a function to communicate with an external device;

an I/O control unit, said I/O control unit capable of writing and reading which
~~writes and reads~~ data to and from a recording medium; and

a ~~cash~~ cache memory, said cache memory being accessible by which the
communication control unit and the I/O control unit, and can access; ~~said method~~
~~comprising the steps of:~~

wherein when the communication control unit receives a data write request
from the external ~~device; device~~, the I/O control unit adds location information and
common information to data to be written in each sector of a series of sectors of the
recording medium in which data is to be written in response to ~~caused by~~ the data
write request, said location information being which is information indicating a
location of the sector in the series of sectors, and said ~~and~~ common information
being information set relating to the series of sectors and varying which varies every
time data writing to the series of sectors occurs ~~and is information set relating to the~~
~~series of sectors.~~

8. (currently amended) The ~~A method for controlling a computer~~ according to
claim 6, constructed comprising

~~a communication control unit which provides a function to communicate with an external device;~~

~~an I/O control unit which writes and reads data to and from a recording medium;~~

~~a cash memory which the communication control unit and the I/O control unit can access; said method comprising the steps of:~~

~~the communication control unit receives a data write request from the external device;~~

~~the communication control unit writes in data to be written in each sector of a series of sectors of the recording medium in which data is to be written caused by the data write request location information which is information indicating a location of the sector in the series of sectors and common information which varies every time data writing to the series of sectors occurs and is information set relating to the series of sectors;~~

wherein the I/O control unit reads out the location information and the common information written in each continuous sector of the recording medium when the communication control unit receives a data read request from the external device; and wherein

the communication control unit validates data based on the read out location information and common information.

9. (currently amended) The~~A method for controlling a computer~~ according to

~~claim 6, constructed comprising a communication control unit which provides a function to communicate with an external device;~~

~~an I/O control unit which writes and reads data to and from a recording medium;~~

~~a cash memory which the communication control unit and the I/O control unit can access; said method comprising the steps of:~~

~~the communication control unit receives a data write request from the external device;~~

~~the communication control unit writes in data to be written in each sector of a series of sectors of the recording medium in which data is to be written caused by the data write request location information which is information indicating a location of the sector in the series of sectors and common information which varies every time data writing to the series of sectors occurs and is information set relating to the series of sectors;~~

wherein the I/O control unit reads out the location information and the common information written in each continuous sector of the recording medium when the communication control unit receives a data read request from the external device, and validates data based on the read out location information and common information.

10. (currently amended) A computer comprising:

a communication control unit, the communication control unit including which

provides a function to communicate with an external device;

an I/O control unit, ~~the I/O control unit writing and reading which writes and reads data to and from a recording medium;~~

a ~~cash~~ cache memory, ~~the cache memory being accessible by which the communication control unit and the I/O control unit can access;~~

means for writing location information and common information in data to be written in each sector of a series of sectors of the recording medium in which data is to be written ~~in response to~~ caused by a data write request, said location information ~~being which is~~ information indicating a location of the sector in the series of sectors, ~~and said~~ and common information being information set relating to the series of sectors when it receives the data write request from the external device and varying which varies every time data writing to the series of sectors occurs and is information set relating to the series of sectors when it receives the data write request from the external device;

means for reading out the location information and the common information written in each continuous sector of the recording medium after receiving ~~when it receives a data read request from the external device; and~~

means for validating data based on the read out location information and common information.

11. (currently amended) A disk array unit ~~comprising~~ comprising:
a plurality of disk drives drives; and,

a disk controller, ~~the disk controller controlling which controls~~ writing and reading of data to and from the plurality of disk drive drives by ~~by the~~ RAID5 method, wherein:

when writing data to the plurality of disk drive drives according to the ~~a~~ read modify write method, the disk array unit writes location information and common information in each sector of a series of sectors of the ~~disks of the plurality of disk drives~~ recording medium in which data is to be written in response to ~~caused by~~ a single data write request, said location information being ~~which is~~ information indicating a location of the sector in the series of sectors, ~~and~~ said common information being information set relating to the series of sectors and varying ~~which varies every time data writing to the series of sectors occurs and is information set relating to the series of sectors.~~

12. (currently amended) A disk drive comprising:

a magnetic disk;

communication means for communicating with an external device;

access means for writing and reading data to and from the magnetic disk corresponding to a control signal received by the communication means; and

write means for writing location information and common information in each sector of a series of sectors of the recording medium in which data is to be written in response to ~~caused by~~ a single data write request, said location information being ~~which is~~ information indicating a location of the sector in the series of sectors

and said common information being information set relating to the series of sectors
and varying~~which varies~~ every time data writing to the series of sectors occurs ~~and is~~
~~information set relating to the series of sectors.~~

13. (currently amended) A disk drive comprising:

a magnetic disk;

communication means for communicating with an external device;

access means for writing and reading data to and from the magnetic disk
corresponding to a control signal received by the communication means; and

validation means ~~which reads~~for reading out the location information and the
common information written in each continuous sector of ~~the~~a recording medium in
the disk drive and ~~validates~~validating data based on the read out location
information and common information.

14. (currently amended) A disk drive comprising:

a magnetic disk;

communication means for communicating with an external device;

access means for writing and reading data to and from the magnetic disk
corresponding to a control signal received at the communication means;

validation means ~~which reads~~for reading out the location information and the
common information written in each continuous sector of ~~the~~a recording medium of
the disk drive and ~~validates~~validating data based on the read out location

information and common information; and

signal output means ~~which outputs~~ for outputting a signal indicating that an abnormality has occurred when an abnormality is detected by the validation.